

TO: Dave Tomten (USEPA)

DATE: January 21, 2010

FROM: Barry Koch and Paul Stenhouse (P4 Production)

CC: Distribution List

SUBJECT: *V-Notch Weir Installation—Flow Characterization at Ballard Mine*

Dear Mr. Tomten,

P4 has identified a need to better define flow rates at the spring located in the southeast Ballard Mine area. Flow rate information is needed for possible pilot-scale treatment testing. To collect this information, P4 proposes to install a v-notch weir. This weir would be installed within 50 feet of the toe of MWD082, Ballard Mine Pit #3 Overburden Dump in the narrow channel which currently exists.

The weir would be constructed from 4 X 8 feet, ¼" thick sheet steel, with a 90 degree notch, 12 inches deep. P4 would dig a narrow channel normal to the stream channel and install the weir. Once installed, P4 would re-contour the ground surface to ensure all seep water is directed through the weir opening. Installing this weir would coincide with lowest anticipated flows (February), so that channel disturbance is minimized to the extent feasible. Additional autonomous measurement devices may be used as well due to remoteness/access issues. Water that passes through the weir would discharge and remain in the original stream channel.

P4 is submitting this memo to EPA under Paragraph 20.1 of the AOC for concurrence and permission to install this v-notch weir and collect the flow rate information. Once approved, P4 will install the weir as soon as possible.

If you have any further questions, please e-mail me at barry.s.koch@monsanto.com or phone Paul Stenhouse, (208) 547 1294.

Sincerely,

Barry Koch